Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the

instant application:

1. (Withdrawn) A communication system comprising a plurality of portable devices

being communicatively linked via an ad-hoc wireless network such that each said portable

device functions in a peer-to-peer fashion, wherein each said portable device includes a

communication architecture comprising:

an application configured to control service discovery, usage, and advertising;

a service manager configured to discover services provided by other ones of said

portable devices, and register and advertise services provided by said portable device within

which said service manager is disposed, under control of said application; and

a micro-hypertext transfer protocol server configured to send and receive queries to

facilitate service discovery, usage, and advertising.

2. (Withdrawn) The system of claim 1, said service manager having a service registry

specifying a hierarchy of services available from the portable computing device within which

said service manager is disposed, and specifying services, within said hierarchy, that have

been discovered by said portable device.

3. (Withdrawn) The system of claim 2, wherein said portable device receives a service

discovery message from a client device and a response from a server device, said portable

device comparing the response from the server device with the service registry and

responding to said service discovery message only if said service registry specifies different

services than specified in the response from the server device.

4. (Withdrawn) The system of claim 2, said application comprising a user interface,

wherein said hierarchy of services specified by said service registry correlates directly with

said user interface.

(WP575010:1)

2

Appln No. 10/790,371

Amendment dated March 3, 2009

Reply to Office Action of February 3, 2009

Docket No. 5853-426

5. (Withdrawn) The system of claim 1, wherein said service manager interacts with a

messaging layer of said portable device, said messaging layer being in communication with a

transport layer of said portable device.

6. (Withdrawn) The system of claim 1, wherein each service specified within said

service registry has an expiration attribute, said service manager configured to purge said

service registry of services that have expired.

7. (Withdrawn) The system of claim 1, wherein at least one of said plurality of portable

devices is configured to transmit a service discovery message to a fixed multicast group.

8. (Withdrawn) The system of claim 7, wherein, upon receiving the service discovery

message, at least one other of said plurality of portable devices locates a service matching

said service discovery message and transmits a service advertisement message specifying

one or more services matching said service discovery message.

9. (Withdrawn) The system of claim 1, wherein at least one of said portable devices

includes a service, said service comprising:

a service object configured to perform said service and interact with said application

disposed within another one of said plurality of portable devices having requested said

service; and

a service description including information pertaining to properties of said service.

10. (Withdrawn) The system of claim 1, wherein said portable device waits a random

time period prior to sending a response to a received service discovery request.

11. (Original) A method of providing services over an ad-hoc, peer-to-peer, wireless

network comprising:

(WP575010;1)

3

within a portable device, transmitting a service discovery message to a fixed multicast group over said network;

receiving a service advertising message from at least one other portable device of said fixed multicast group;

matching a service specified by the service advertising message with a location within a service registry of the portable device; and

incorporating the matched service within the service registry, wherein the matched service specifies a network address for retrieving information about the matched service.

12. (Original) The method of claim 11, further comprising:

transmitting a query to the network address of the matched service requesting additional information about the matched service;

receiving the additional information; and invoking the matched service.

13. (Withdrawn) A method of providing services over an ad-hoc, peer-to-peer, wireless network comprising:

within a first server device, receiving a service discovery message over the network from a client device, wherein the service discovery message requests a service;

generating a response to the service discovery message, wherein the response specifies differences between the requested service and a service registry of the first server device;

receiving a response to the service discovery message from a second server device;

comparing the response from the second server device with the response of the first server device; and

selectively sending the response of the first server device according to the comparing step.

14. (Withdrawn) The method of claim 13, wherein the response of the first server device

4

(WP575010:1)

Appln No. 10/790,371

Amendment dated March 3, 2009

Reply to Office Action of February 3, 2009

Docket No. 5853-426

is sent if the response of the second server device differs from the response of the first server

device.

15. (Withdrawn) The method of claim 13, wherein the response of the first server device

is not sent if the response of the second server device is the same as the response of the first

server device.

16. (Original) A machine readable storage, having stored thereon a computer program

having a plurality of code sections executable by a portable computing device for causing the

device to perform the steps of:

transmitting a service discovery message to a fixed multicast group of portable

computing devices over an ad-hoc, peer-to-peer, wireless network;

receiving a service advertising message from at least one portable computing device

of the fixed multicast group;

matching a service specified by the service advertising message with a location within

a service registry of the portable device; and

incorporating the matched service within the service registry, wherein the matched

service specifies a network address for retrieving information about the matched service.

17. (Original) The machine readable storage of claim 16, further comprising:

transmitting a query to the network address of the matched service requesting

additional information about the matched service;

receiving the additional information; and

invoking the matched service.

18. (Withdrawn) A machine readable storage, having stored thereon a computer program

having a plurality of code sections executable by a portable computing device for causing the

device to perform the steps of:

within a first server device, receiving a service discovery message over an ad-hoc,

{WP575010:1} 5

Appln No. 10/790,371

Amendment dated March 3, 2009

Reply to Office Action of February 3, 2009

Docket No. 5853-426

peer-to-peer, wireless network from a client device, wherein the service discovery message

requests a service;

generating a response to the service discovery message, wherein the response

specifies differences between the requested service and a service registry of the first server

device;

receiving a response to the service discovery message from a second server device;

comparing the response from the second server device with the response of the first

server device; and

selectively sending the response of the first server device according to the comparing

step.

19. (Withdrawn) The machine readable storage of claim 18, wherein the response of the

first server device is sent if the response of the second server device differs from the response

of the first server device.

20. (Withdrawn) The machine readable storage of claim 18, wherein the response of the

first server device is not sent if the response of the second server device is the same as the

response of the first server device.

6